

## **TRUE RANDOM NUMBER GENERATOR AND ENTROPY CALCULATION DEVICE AND METHOD**

**Abstract:** A random number generator includes a first oscillator that provides a first oscillatory signal to a processor, and a second oscillator that provides a signal to a frequency multiplier, which in turn provides a second oscillatory signal to the processor. The relative jitter between the two oscillatory signals contains a calculable amount of entropy that is extracted by the processor to produce a sequence of true random numbers.